(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 22 April 2004 (22.04.2004)

(10) International Publication Number WO 2004/033651 A2

(51) International Patent Classification7:

C12N

Grove, PA 19090 (US). CHEN, Xi [CN/US]; 107 Whitney

(21) International Application Number:

PCT/US2003/031974

(22) International Filing Date: 8 October 2003 (08.10.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

| PCT/US02/32263 | 9 October 2002 (09.10.2002) | US |
|----------------|-------------------------------|----|
| 10/287,994 | 5 November 2002 (05.11.2002) | US |
| 10/360,770 | 6 January 2003 (06.01.2003) | US |
| 10/360,779 | 19 February 2003 (19.02.2003) | US |
| 10/410,945 | 9 April 2003 (09.04.2003) | US |
| | | |

(71) Applicant (for all designated States except US): NEOSE TECHNOLOGIES, INC. [US/US]; 102 Witmer Road, Horsham, PA 19044 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): DE FREES, Shawn [US/US]; 126 Filly Drive, North Wales, PA 19454 (US). ZOPF, David [US/US]; 560 W. Beechtree Lane, Wayne, PA 19087 (US). BAYER, Robert [US/US]; 6105 Dirac Street, San Diego, CA 92122 (US). BOWE, Caryn [US/US]; 310 Maple Avenue, Doylestown, PA 18901 (US). HAKES, David [US/US]; 14 Fem Avenue, Willow

Place, Lansdale, PA 19446 (US).

- (74) Agents: DOYLE, Kathryn et al.; Morgan, Lewis & Bockius L.L.P., 1701 Market Street, Philadelphia, PA 19103
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

